

NIST BIOMETRIC RANKINGS - LATEST SUBMISSION

All vendors * Ranked by score of each vendor's most recent submission * March 2026

RANKING CRITERION: Each vendor appears only once, with its most recent submission. Rankings are ordered by the score of that submission - not by the best historical result. This reflects each vendor's current technology state, penalizing those who have not submitted new versions and rewarding those who keep their submissions up to date.

Gold = #1	Silver = #2	Bronze = #3	Top 3 = bold colored rank & score	All vendors treated equally
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FACE RECOGNITION

FRTE 1:1 * FRTE 1:N * FATE AEV

FRTE 1:

Face Recognition Technology Evaluation - 1:1 Verification

1

What it evaluates: Verifies whether two faces belong to the same person (passports, access control, digital identity). Metric: FNMR - False Non-Match Rate. Lower is better.

Metric: FNMR @ FMR=0.00001 - MUGSHOT Dataset (most recent submission per vendor)

Criterion: Ranked by FNMR of each vendor's most recent submission on the Mugshot dataset

Source: pages.nist.gov/frvt/html/frvt11.html - collected Mar 2026

#	Med	Company	Algorithm (ID)	Latest Sub.	Score	Notes
1	#1	QazSmartVision.AI	qazsmartvisionai-004	Jul 2025	0.0020	-
2	#2	Paravision	paravision-020	Dec 2025	0.0020	-
3	#3	STCon	stcon-008	Dec 2025	0.0021	-
4		Recognito	recognito-001	Sep 2023	0.0021	-
5		ROC	roc-020	Feb 2026	0.0021	Most recent (Feb/26)
6		Innovatrics	innovatrics-014	Mar 2025	0.0021	-
7		SenseTime	sensetime-008	Jan 2023	0.0021	-
8		Intema	intema-001	Jan 2023	0.0021	-
9		Incode Technologies	incode-015	Jun 2025	0.0021	-
10		PSL	psl-012	Oct 2023	0.0021	-
11		Deepsense	deepsense-007	Jul 2025	0.0022	-
12		Toshiba	toshiba-012	Jan 2026	0.0022	-
13		VinBigData	vinbigdata-007	Jul 2025	0.0022	-
14		IDEMIA	idemia-010	Jun 2023	0.0022	Submission from 2023

#	Med	Company	Algorithm (ID)	Latest Sub.	Score	Notes
15		Neurotechnology	neurotechnology-019	Jul 2024	0.0022	-
16		Surrey CVSSP	surrey-cvssp-003	Sep 2023	0.0022	Academia
17		Omnigarde	omnigarde-004	Jun 2024	0.0022	-
18		CloudWalk-MT	cloudwalk-mt-007	Feb 2023	0.0023	-
19		Megvii	megvii-009	Feb 2024	0.0023	-

Note: IDEMIA ranked #14 with last submission from Jun 2023. Vendors with more recent submissions and similar scores appear ahead. IDEMIA's score (0.0022) is technically competitive but not updated.

FRTE 1: Face Recognition Technology Evaluation - 1:N Identification

What it evaluates: Identifies a face in a database of up to 12 million images (borders, forensics, public safety). Metric: FNIR - False Negative Identification Rate. Metric: FNIR - Mugshot Dataset N=12M (most recent submission per vendor)

Criterion: Ranked by FNIR of each vendor's most recent submission on the Mugshot N=12M dataset Source: pages.nist.gov/frvt/html/frvt1N.html - collected Mar 2026

#	Med	Company	Algorithm (ID)	Latest Sub.	Score	Notes
1	#1	QazSmartVision.AI	qazsmartvisionai_002	Dec 2024	0.0007	Webcam: 0.0005
2	#2	NEC	nec_010	Jan 2025	0.0007	Webcam: 0.0006
3	#3	IDEMIA	idemia_012	Jul 2025	0.0009	Webcam: 0.0007; #1 Fairness
4		SenseTime	sensetime_010	Dec 2024	0.0009	Webcam: 0.0006
5		Megvii	megvii_004	Oct 2023	0.0011	Webcam: 0.0009
6		Innovatrics	innovatrics_015	Sep 2025	0.0012	Webcam: 0.0008
7		STCon	stcon_004	Jan 2026	0.0013	Webcam: 0.0007
8		Viante	viant_002	Dec 2025	0.0013	Webcam: 0.0007
9		Paravision	paravision_019	Jul 2025	0.0014	Webcam: 0.0007
10		PSL	psl_004	Nov 2025	0.0014	Webcam: 0.0007
11		Recognito	recognito_002	Nov 2023	0.0014	Webcam: 0.0007
12		OptiExacta	optiexacta_000	Jul 2024	0.0014	Webcam: 0.0007
13		Incode	incode_007	Jul 2025	0.0016	Webcam: 0.0008
14		ROC	roc_019	Aug 2025	0.0016	Webcam: 0.0008

IDEMIA ranked #3 by most recent submission (Jul 2025). Score 0.0009 on 12M dataset. Additional highlight: #1 in FAIRNESS among the 100 most accurate algorithms.

FATE AE

Face Analysis Technology Evaluation - Age Estimation & Verification

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What it evaluates: Estimates age from facial analysis and verifies adulthood (18+, 21+). Metric: MAE (Mean Absolute Error in years). Lower is better.

Metric: MAE (years) - Mugshot Dataset (most recent submission per vendor, Jan 2026)

Criterion: Ranked by MAE of most recent submission. Approximate values - exact ranking in NIST IR 8525.

Source: pages.nist.gov + BiometricUpdate Jan 2026 + NIST IR 8525

#	Med	Company	Algorithm (ID)	Latest Sub.	Score	Notes
1	#1	Innovatrics	innovatrics-00x (2025-26)	Jan 2026	~2.1 yrs	Top 1-2 mugshots
2	#2	Innovatrics	innovatrics-00y (2025-26)	Jan 2026	~2.2 yrs	Top 1-2 mugshots
3	#3	IDEMIA	idemia-001/002	2024	~2.4 yrs	#3 mugshots
4		Yoti	yoti-004	Jan 2026	~2.5 yrs	New entrant Jan/26
5		ROC	roc-xxx	2025	~2.6 yrs	#5 mugshots
6		Privately	privately-000	Jan 2026	-	New entrant (CH)
7		Neurotechnology	neuro-000	2024	-	Participant
8		Jumio	jumio-000	2024	-	Participant

Note: IDEMIA #3 - 2024 submission with no recent update. Innovatrics leads with two independent algorithms occupying top-2 positions simultaneously in mugshots.

IREX 10

Iris Exchange - Ongoing Track (1:N Identification)

What it evaluates: Iris recognition 1:N. Metric: FNIR@FPIR=0.01.

Metric: FNIR @ FPIR=0.01 (most recent submission per vendor)

Used in border control, airport boarding, and national identity programs.

Criterion: Ranked by FNIR of each vendor's most recent submission. Note: NEC's most recent submission (Oct 2025) scored worse than its prior version.

Source: pages.nist.gov/IREX10/ - collected directly Mar 2026

#	Med	Company	Algorithm (ID)	Latest Sub.	Score	Notes
1	#1	IDEMIA	idemia_002	Jun 2023	0.0026 +-0.0004	Most recent sub. 2023
2	#2	Innovatrics	innovatrics_007	Mar 2025	0.0029 +-0.0004	Updated Mar/25
3	#3	Hikvision	hikvision_007	Jan 2023	0.0029 +-0.0004	Last result
4		Neurotechnology	neurotechnology_019	Dec 2025	0.0030 +-0.0004	Updated Dec/25
5		Thales	thales_002	Jan 2024	0.0032 +-0.0004	Last result
6		IrisID	irisid_011	Nov 2025	0.0034 +-0.0004	Updated Nov/25
7		Omnigarde	omnigarde_000	Feb 2026	0.0041 +-0.0005	Most recent in ranking
8		Pentacomp	pentacomp_001	Oct 2024	0.0042 +-0.0004	-
9		IRLinker	irlinker_003	Nov 2024	0.0052 +-0.0005	-
10		Decatur	decatur_000	Nov 2021	0.0060 +-0.0005	No recent update
11		NEC	nec_015	Oct 2025	0.0063 +-0.0005	Regressed vs 2022 version
12		EzSys	ezsys_000	Jan 2026	0.0083 +-0.0006	New entrant
13		Tech5	tech5_008	Nov 2024	0.0088 +-0.0006	-
14		ROC	roc_019	Oct 2025	0.0095 +-0.0007	-
15		BioID	bioid_003	Dec 2024	0.0096 +-0.0007	-

IDEMIA #1 in IREX 10 by most recent submission per vendor. NEC regressed from #1 (2022) to #11 with its most recent submission (Oct 2025). IREX was suspended Aug-Sep 2025 for NIST infrastructure update.

FINGERPRINT

ELFT * PFT III * MINEX III * FRIF TE E1N

ELFT

Evaluation of Latent Fingerprint Technologies

What it evaluates: Identifies LATENT fingerprints from crime scenes against databases of millions. World reference forensic benchmark.
Metric: FNIR/Rank-1 Hit Rate.

Metric: Rank-1 Hit Rate (%) - FBI Solved Dataset #1 (higher is better, Feb 2026)

Criterion: Ranked by Rank-1 Hit Rate of each vendor's most recent submission on the FBI Solved Dataset.

Source: BiometricUpdate Feb 2026 + NIST ELFT pages.nist.gov/elft - most recent submission per vendor

#	Med	Company	Algorithm (ID)	Latest Sub.	Score	Notes
1	#1	Beijing Hisign Technology	HisignImpl-001B	Apr 2025	98.9%	DoD dataset: top
2	#2	Innovatrics	innovatrics-0010	Feb 2026	98.6%	FBI Lab Solved: #2
3	#3	ROC	roc-0017	Jan 2026	98.2%	DoD: lowest FNIR@Rank<=11
4		Neurotechnology	neuro-0019	Sep 2025	~97%	FBI Lab: #1 shared
5		IDEMIA	idemia+0002	Oct 2024	Top 10	Declared #1 Mar 2025
6		Thales	thales-xxx	2024	Top 10	Speed: 2nd fastest
7		NEC	nec-xxx	2024	Top 10	Top 10 FBI Solved
8		Dermalog	dermalog-xxx	2024	Top 20	-
9		Griaule	griaule-100F	Jan 2026	85.3%	Top 20
10		Antheus Technology	antheus-xxx	2024	Top 20	Brazil - Top 20

Note: ELFT does not publish a centralized ranking table - positions inferred from press releases and BiometricUpdate. Rankings vary by dataset.

PFT III

Proprietary Fingerprint Template Evaluation III

What it evaluates: 1:1 fingerprint verification with proprietary templates. Used in passports, border control, and national AFIS.

Metric: FNMR @ FMR=0.0001 - Arizona DPS dataset (lower is better)

Criterion: Most recent submission per vendor, ranked by FNMR on the Arizona DPS dataset.

Source: pages.nist.gov/pft/results/pftiii/ - collected directly Mar 2026

#	Med	Company	Algorithm (ID)	Latest Sub.	Score	Notes
1	#1	Neurotechnology	Neurotechnology+0017	Jul 2025	0.0030	LA:0.0047 USVISIT:0.0045
2	#2	IDEMIA	idemia+0004	Dec 2023	0.0037	LA:0.0061 USVISIT:0.0050
3	#3	Dermalog	dermalog+0011	Jun 2025	0.0040	LA:0.0071 USVISIT:0.0050
4		Beijing Hisign Technology	HisignTechimpl+0016	Feb 2025	0.0041	LA:0.0066 USVISIT:0.0050
5		ROC	roc+0006	Oct 2024	0.0045	LA:0.0068 USVISIT:0.0050
6		identity.io	identity+0003	Jul 2025	0.0050	LA:0.0074 USVISIT:0.0056

#	M e d	Company	Algorithm (ID)	Latest Sub.	Score	Notes
7		Rank One Computing	rankone+0001	Dec 2022	0.0055	LA:0.0101 USVISIT:0.0056
8		NEC	nec+0003	Jan 2025	0.0057	LA:0.0100 USVISIT:0.0069
9		Innovatrics	innovatrics+0003	May 2022	0.0082	LA:0.0108 USVISIT:0.0075
10		Imagid	iid+0011	Jul 2025	0.0086	LA:0.0129 USVISIT:0.0084
11		Neurodactyl	NeuroDactyl+0004	Mar 2025	0.0078	LA:0.0121 USVISIT:0.0069
12		Touchless ID	touchless+0004	Dec 2024	0.0124	LA:0.0143 USVISIT:0.0111
13		Miaxis Biometrics	miaxis+0004	Jul 2024	0.0212	LA:0.0295 USVISIT:0.0175
14		Antheus Technologia	antheus+0002	Oct 2024	0.0447	LA:0.0634 USVISIT:0.0511

Note: IDEMIA ranked #2 with Dec 2023 submission (score 0.0037). Neurotechnology submitted in Jul 2025 with a better score (0.0030) and leads. Innovatrics has a more recent submission (Jun 2025) but its score of 0.0082 is worse than its own prior versions.

MINEX III Minutiae Interoperability Exchange III

What it evaluates: Interoperability of minutiae templates (INCITS 378 standard). Mandatory for US government PIV systems.

Metric: Native FNMR 1 finger @ FMR=0.0001 (lower is better)

Criterion: Most recent COMPLIANT submission per vendor, ranked by native 1-finger FNMR.

Source: pages.nist.gov/minex/results/tables/ - collected directly Mar 2026

#	M e d	Company	Algorithm (ID)	Latest Sub.	Score	Notes
1	#1	IDEMIA	morpho+0119	Dec 2025	0.00183	Compliant - most recent
2	#2	Innovatrics	innovatrics+0025	Nov 2025	0.00288	Compliant
3	#3	Thales / Cogent	cogent+0515	Dec 2023	0.00372	Compliant
4		Miaxis Biometrics	miaxis+0028	Jan 2026	0.00510	Compliant
5		AA Technology	aatec+0450	Dec 2024	0.00590	Compliant
6		Imagid	imagid+0220	May 2025	0.00610	Compliant
7		id3 Technologies	id3+14A1	Sep 2024	0.00760	Compliant
8		NEC	nec+8211	Aug 2022	0.00880	Compliant
9		Decatur Industries	Decatur+0110	Jan 2026	0.00890	Compliant
10		Neurotechnology	Neurotechnology+020 A	Oct 2023	0.00930	Compliant - score worse than prior version
11		Omnigarde	omnigarde+0010	May 2024	0.01010	Compliant
12		Dermalog	dermalog+0010	Feb 2025	0.01070	Compliant
13		Griaule	griaule+0112	Nov 2022	0.01280	Compliant

IDEMIA #1 with Dec 2025 submission, score 0.00183 - best FNMR among all compliant vendors. 57% gap to 2nd place (Innovatrics 0.00288). Neurotechnology dropped to #10 as its most recent submission (Oct 2023) scored worse than prior versions.

FRIF TE E1N

Friction Ridge Image & Features - Exemplar 1-to-Many

What it evaluates: 1:N identification in national ABIS systems - 3 classes: A (index fingers), B (slaps 4-4-2), C (10 fingers). Relaunched after 13 years (replaced FpVTE 2012).

Metric: FNIR @ FPIR=0.001 - Class A (index fingers, N=1.6M, lower is better)

Criterion: Most recent submission per vendor, ranked by FNIR Class A. Only 6 vendors with published results as of Mar 2026.

Source: pages.nist.gov/frifte/e1n/ + BiometricUpdate Jan/Feb 2026 - last update Mar 2026

#	Med	Company	Algorithm (ID)	Latest Sub.	Score	Notes
1	#1	Neurotechnology	Neurotechnology+0104	Dec 2025	0.0002	Class B: zero errors; Class C: top
2	#2	Innovatrics	innovatrics+0002	Dec 2025	0.0005	6x improvement vs Sep/25 submission
3	#3	identity.io	identity+0001	Feb 2026	0.0006	Class B: FNIR=0.0001 (99.99%)
4		IDEMIA	IDEMIA+0001	Nov 2025	Top 4	Highest published speed; 10x vs FpVTE 2012
5		Tech5	tech5impl+0008	Aug 2025	0.0010	First submission - pioneer
6		NEC	nec+0002	2025	-	Result not widely published

Note: FRIF TE E1N does not publish a consolidated ranking table - scores extracted from individual PDFs and press releases. IDEMIA's FNIR Class A not numerically confirmed in public sources; #4 position estimated. Neurotechnology #1 with FNIR=0.0002 (Dec 2025).

CONSOLIDATED OVERVIEW - BENCHMARK LEADERS (CRITERION: LATEST SUBMISSION)

Benchmark	Current Leader	Sub. Date	Leader Score	Runner-Up / Notable	Key Notes
FRTE 1:1	QazSmartVision.AI	Jul 2025	0.0020 FNMR	Paravision (0.0020)	Top 3 within 0.0001 margin
FRTE 1:N	QazSmartVision.AI	Dec 2024	0.0007 FNIR	NEC (0.0007)	IDEMIA #3 Jul 2025; leads Fairness
FATE AEV	Innovatrics	Jan 2026	~2.1 yrs MAE	IDEMIA (~2.4 yrs)	Innovatrics holds top-2 positions
IREX 10	IDEMIA	Jun 2023	0.0026 FNIR	Innovatrics (0.0029)	NEC regressed from #1 to #11
ELFT	Beijing Hisign	Apr 2025	98.9% HR	Innovatrics (98.6%)	Rankings vary by dataset
PFT III	Neurotechnology	Jul 2025	0.0030 FNMR	IDEMIA (0.0037)	Sub. dates: Neuro Jul/25 vs IDEMIA Dec/23
MINEX III	IDEMIA	Dec 2025	0.00183 FNMR	Innovatrics (0.00288)	57% gap to 2nd place
FRIF TE E1N	Neurotechnology	Dec 2025	0.0002 FNIR	Innovatrics (0.0005)	Only 6 vendors submitted so far

STRATEGIC READING: The global biometric market in 2026 is characterized by fragmented leadership - no single vendor leads all modalities simultaneously. Only two vendors - Innovatrics and IDEMIA - compete across all 8 active NIST benchmarks, positioning them as full-platform biometric providers. The most active updaters are Innovatrics (5 benchmarks with recent submissions) and Neurotechnology (4 benchmarks). Key benchmark to watch: FRIF TE E1N, relaunched after 13 years - it will define ABIS procurement standards for the next decade.

Sources: pages.nist.gov (FRTE, FATE, IREX 10, PFT III, MINEX III, FRIF TE E1N) * biometricupdate.com * Press releases: IDEMIA, Neurotechnology, Innovatrics, ROC, identity.io * Generated: 09/03/2026 * Criterion: score of most recent submission per vendor * Does not represent endorsement by the US government of any product or company